



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/557,081 | 04/21/2000 | Henry B. Strub | IR-022-C1 | 6596 |

21912 7590 07/27/2004

VAN PELT & YI LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014

EXAMINER

TRAN, THAI Q

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2616

DATE MAILED: 07/27/2004

27

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/557,081

Applicant(s)

STRUB ET AL.

Examiner

Thai Tran

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8,10-26,28-38 and 40-53 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8,10-26,28-38 and 40-53 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Please include the new Art Unit 2616 in the caption or heading of any written or facsimile communication submitted after this Office Action because the Examiner, who was assigned to Art Unit 2615, will be assigned to new Art unit 2616. Your cooperation in this matter will assist in the timely processing of the submission and is appreciated by the Office.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 04, 2004 has been entered.

Response to Arguments

3. Applicant's arguments with respect to claims 1-8, 10-26, 28-38, and 40-53 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-5, 8, 10-11, 13-21, 28-36, 40-41, 44-49, and 52-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwoh et al (US 2002/00331331 A1) in view of Cobbley et al (US Patent No. 5,818,510).

Regarding claim 1, Kwoh et al, as discussed in the last Final Office Action, discloses a recording unit (Fig. 2) for recording an event, comprising:

a data acquisition device (camera electronics 204 of Fig. 2, page 2, paragraph #0035) for obtaining recording data representing the content of the event;

a data storage device (tape 212 of Fig. 2, page 2, paragraph #0035) for storing data, including recording data;

a control interface device (controls 216, play 220, record 218, and voice title 222 of Fig. 2, keyboard 32 of Fig. 4, page 2, paragraph #0035, page 3, paragraph #0043, page 4, paragraphs #0047, #0049, and #0050, and page 5, paragraph #0057) for enabling a user to control operation of the recording unit, the control interface device

Art Unit: 2616

further comprising marking means for enabling the user to specify multiple types of non-contemporaneous marks; and

a system controller (microcontroller 214 of Fig. 2, page 2, paragraphs #0035 and #0036) that causes, in response to the specification of a non-contemporaneous mark by the user, the data storage device to store marking data associating the non-contemporaneous mark with recording data obtained at a marked time different from the marking time at which the non-contemporaneous mark was specified by the user;

wherein the non-contemporaneous mark is specified by the user at the time when the recording with which the non-contemporaneous mark is associated is neither being obtained by the recording unit nor displayed to the user (page 2, paragraphs #0035 and #0036); wherein each of the multiple types of non-contemporaneous marks has a different meaning that is defined by its marking definition (page 3, paragraph #0043 and page 5, paragraph #0057). However, Kwoh et al does not specifically disclose the newly added limitation "a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data being obtained by the data acquisition device, a desired meaning for at least one of the multiple types of non-contemporaneous marks".

Cobbley et al teaches, an apparatus for providing broadcast information with indexing, a user a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data being obtained by the data acquisition device, a desired meaning for at least one of the

multiple types of non-contemporaneous marks (col. 4, lines 13-41) to allow the user to quickly and easily access the stored information (col. 2, lines 1-2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the user interface as taught by Cobbley et al into Kwoh et al's system in order to simplify the process of accessing the stored information as suggested by Cobbley.

Regarding claim 2, Kwoh et al discloses the claimed wherein the marking means is adapted to enable specification of a retrospective mark that is associated with recording data obtained at a marked time prior to the marking time at which the retrospective mark was specified by the user (pages 2-3, paragraphs # 0036 and #0037).

Regarding claim 3, Kwoh et al discloses the claimed wherein the marking means is adapted to enable specification of a predictive mark that is associated with recording data obtained at a marked time subsequent to the marking time at which the predictive mark was specified by the user (pages 2-3, paragraphs #0036 and #0037).

Regarding claim 4, Kwoh et al discloses the claimed wherein the marking data defines the marking time and a duration of time, the marked time being the time different from the marking time by the amount of the duration of time (page 2, paragraph #0035 and pages 4-5, paragraph #0055).

Regarding claim 5, Kwoh et al discloses the claimed wherein the marking data defines the marking time directly (page 2, paragraph #0035).

Regarding claim 8, Kwoh et al discloses the claimed wherein the marking data further defines a range of time relative to the marked time (page 2, paragraph #0035 and pages 4-5, paragraph #0055).

Regarding claim 10, Kwoh et al discloses the claimed wherein the marking means further comprises:

means for indicating that a voice mark is to be imminently specified (page 2, paragraph # 0035); and

means for identifying a voice mark (page 2, paragraphs #0035 and #0036), the means for identifying operable in response to an indication that a voice mark is to be imminently specified.

Regarding claim 11, Kwoh et al discloses the claimed wherein the recording unit is portable (page 2, paragraph #0034).

Regarding claim 13, Kwoh et al discloses the claimed wherein the data acquisition device further comprises a visual data acquisition device (the monitor 232 of Fig. 2, page 2, paragraph #0035).

Regarding claim 14, Kwoh et al discloses the claimed wherein the data acquisition device further comprises an audio data acquisition device (the microphone 224 of Fig. 2, page 2, paragraph #0035).

Regarding claim 15, Kwoh et al, as discussed in the last Final Office Action, discloses a portable recording unit (Fig. 2) for recording an event, comprising:

a data acquisition device (camera electronics 204 of Fig. 2, page 2, paragraph #0035) for obtaining recording data representing the content of the event;

a data storage device (tape 212 of Fig. 2, page 2, paragraph #0035) for storing data, including recording data;

a control interface device (controls 216, play 220, record 218, and voice title 222 of Fig. 2, keyboard 32 of Fig. 4, page 2, paragraph #0035, page 3, paragraph #0043, page 4, paragraphs #0047, #0049, and #0050, and page 5, paragraph #0057) for enabling a user to control operation of the recording unit, the control interface device further comprising marking means for enabling the user to specify multiple types of marks; and

a system controller (microcontroller 214 of Fig. 2, page 2, paragraphs #0035 and #0036, page 3, paragraph #0043, and page 5, paragraph #0057) that causes, in response to the specification of a mark by the user, the data storage device to store marking data associating the specified mark with particular recording data; wherein

each of the multiple types of marks has a different meaning that is defined by its marking definition and the marking definition of one of the multiple types of marks is definable by the user (page 2, paragraphs #0032 and #0035). However, Kwoh et al does not specifically disclose the newly added limitation "a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data being obtained by the data acquisition device, a desired meaning for at least one of the multiple types of marks".

Cobbley et al teaches, an apparatus for providing broadcast information with indexing, a user a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data

Art Unit: 2616

being obtained by the data acquisition device, a desired meaning for at least one of the multiple types of non-contemporaneous marks (col. 4, lines 13-41) to allow the user to quickly and easily access the stored information (col. 2, lines 1-2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the user interface as taught by Cobbley et al into Kwoh et al's system in order to simplify the process of accessing the stored information as suggested by Cobbley.

Regarding claim 16, Kwoh et al discloses the claimed wherein the multiple types of marks include one or more marks that are associated with recording data obtained at a time other than the time at which the mark is specified (pages 2-3, paragraphs # 0036 and #0037).

Regarding claim 17, Kwoh et al discloses the claimed wherein the multiple types of marks include one or more marks indicating a level of importance or interest of the content which the marked recording data represents (pages 2-3, paragraphs #0036 and #0037 and pages 4-5, paragraph #0055).

Regarding claim 18, Kwoh et al discloses the claimed wherein the multiple types of marks include one or more marks indicating a characteristic of the content which the marked recording data represents (pages 2-3, paragraphs #0036 and #0037 and pages 4-5, paragraph #0055).

Regarding claim 19, Kwoh et al discloses the claimed wherein the multiple types of marks include one or more marks indicating the beginning or end of activity of interest (pages 2-3, paragraphs #0036 and #0037 and pages 4-5, paragraph #0055).

Regarding claim 20, Kwoh et al discloses the claimed wherein the multiple types of marks include one or more marks indicating the recording conditions (pages 2-3, paragraphs #0036 and #0037 and pages 4-5, paragraph #0055).

Regarding claim 21, Kwoh et al discloses the claimed wherein the multiple types of marks include one or more marks indicating the user's state of mind (page 2, paragraph #0035).

Regarding claim 28, Kwoh et al discloses the claimed means (page 2, paragraphs #0032 and #0035 and page 3, paragraph #0040) for changing the meaning of one or more marks.

Regarding claim 29, Kwoh et al discloses wherein means for changing the meaning of one or more marks further comprises:

means (page 2, paragraph #0035) for analyzing the recording data; and

means (page 2, paragraphs #0032 and #0035 and page 3, paragraph #0040) for changing the meaning of a mark based on the analysis of the recording data.

Regarding claim 30, Kwoh et al disclosed the claimed wherein the portable recording unit further comprises means (microphone 224 of Fig. 2, page 2, paragraph #0035 and page 3, paragraph #0040) for obtaining data other than recording data; and the means for changing the meaning of one or more marks further compresses means for changing the meaning of a mark based on the data other than the recording data (page 2, paragraph #0035 and page 3, paragraph #0040).

Regarding claim 31, Kwoh et al discloses the claimed one or more marking tokens (page 2, paragraphs #0032 and #0035) for enabling a person to specify a

Art Unit: 2616

corresponding type of mark, each marking token adapted to enable physical separation of the marking token from the control interface device.

Regarding claim 32, Kwoh et al discloses the claimed wherein the marking means further comprises:

means for indicating that a voice mark is to be imminently specified (page 2, paragraph # 0035); and

means for identifying a voice mark (page 2, paragraphs #0035 and #0036), the means for identifying operable in response to an indication that a voice mark is to be imminently specified.

Regarding claim 33, Kwoh et al discloses the claimed wherein the data acquisition device further comprises a visual data acquisition device (the monitor 232 of Fig. 2, page 2, paragraph #0035).

Regarding claim 34, Kwoh et al discloses the claimed wherein the data acquisition device further comprises an audio data acquisition device (the microphone 224 of Fig. 2, page 2, paragraph #0035).

Regarding claim 35, Kwoh et al discloses the claimed wherein the system controller causes, in response to the specification of a mark by the user, operation of the recording unit in a predetermined manner in accordance with the type of the mark (page 2, paragraphs #0032 and #0035).

Regarding claim 36, Kwoh et al discloses the claimed wherein at least one mark indicates a level of importance or interest of the content which the marked recording data represents (page 2, paragraph #0035).

Regarding claim 40, Kwoh et al discloses a recording unit (Fig. 2) for recording an event, comprising:

a data acquisition device (camera electronics 204 of Fig. 2, page 2, paragraph #0035) for obtaining recording data representing the content of the event, the recording data comprising data that may be used by a replay system to provide a user-perceptible reproduction of some human-perceptible occurrence that took place during the event;

a data storage device (tape 212 of Fig. 2, page 2, paragraph #0035) for storing data, including recording data;

a control interface device (controls 216, play 220, record 218, and voice title 222 of Fig. 2, page 2, paragraph #0035) for enabling a user to control operation of the recording unit;

means (voice title 222 of Fig. 2, page 2, paragraph #0035) for producing a mark of the specified type, wherein the means for producing a mark further comprises means for producing a mark and/or supplementing or modifying an existing mark based on the value of, or an analysis of, data acquired by the recording unit; and

a system controller (microcontroller 214 of Fig. 2, page 2, paragraphs #0035 and #0036) that causes, in response to the mark of the specified type being produced, the data storage device to store marking data associating each mark with particular recording data;

wherein the means for producing a mark and/or supplementing or modifying an existing mark produces, supplements or modifies based on the value of, or an analysis of, the data that may be used by a replay system to provide a non-visual, user-

Art Unit: 2616

perceptible reproduction of a non-visual, human-perceptible occurrence that took place during the event (page 2, paragraphs #0035 and #0036). However, Kwoh et al does not specifically disclose the newly added limitation "a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data being obtained by the data acquisition device, a desired meaning for a type of marks".

Cobbley et al teaches, an apparatus for providing broadcast information with indexing, a user a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data being obtained by the data acquisition device, a desired meaning for at least one of the multiple types of non-contemporaneous marks (col. 4, lines 13-41) to allow the user to quickly and easily access the stored information (col. 2, lines 1-2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the user interface as taught by Cobbley et al into Kwoh et al's system in order to simplify the process of accessing the stored information as suggested by Cobbley.

Regarding claim 41, Kwoh et al discloses a recording unit (Fig. 2) for recording an event, comprising:

- a data acquisition device (camera electronics 204 of Fig. 2, page 2, paragraph #0035) for obtaining recording data representing the content of the event;

- a data storage device (tape 212 of Fig. 2, page 2, paragraph #0035) for storing data, including recording data;

Art Unit: 2616

a control interface device (controls 216, play 220, record 218, and voice title 222 of Fig. 2, page 2, paragraph #0035) for enabling a user to control operation of the recording unit;

means (voice title 222 of Fig. 2, page 2, paragraph #0035) for producing a mark of the specified type, wherein the means for producing a mark further comprises means for producing a mark and/or supplementing or modifying an existing mark based on the value of, or an analysis of, data acquired by the recording unit; and

a system controller (microcontroller 214 of Fig. 2, page 2, paragraphs #0035 and #0036) that causes, in response to the specification of the mark of the specified type being produced, the data storage device to store marking data associating each mark with particular recording data;

wherein:

the recording unit further comprises means (voice title 222 of Fig. 2, page 2, paragraph #0035) for acquiring non-visual, human perceptible data other than recording data; and

the means for producing a mark and/or supplementing or modifying an existing mark produces, supplements or modifies based on the value of, or an analysis of, the non-visual, human perceptible data other than the recording data (voice title 222 of Fig. 2, page 2, paragraph #0035). However, Kwoh et al does not specifically disclose the newly added limitation "a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data

Art Unit: 2616

being obtained by the data acquisition device, a desired meaning for at least one of the multiple types of non-contemporaneous marks”.

Cobbley et al teaches, an apparatus for providing broadcast information with indexing, a user a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data being obtained by the data acquisition device, a desired meaning for at least one of the multiple types of non-contemporaneous marks (col. 4, lines 13-41) to allow the user to quickly and easily access the stored information (col. 2, lines 1-2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the user interface as taught by Cobbley et al into Kwoh et al's system in order to simplify the process of accessing the stored information as suggested by Cobbley.

Regarding claim 44, Kwoh et al discloses the claimed wherein the means for producing a mark and/or supplementing or modifying an existing mark produces, supplements or modifies based on the proximity of the marking time to the marked time (page 2, paragraph #0035).

Regarding claim 45, Kwoh et al discloses for use in a recording unit being used by a user for recording an event, a method (Fig. 2) for non-contemporaneously marking recording data obtained by the recording unit, comprising the steps of:

identifying the specification of a non-contemporaneous mark of the specified type(voice title 222 of Fig. 2, page 2, paragraph #0035); and

in response to an identification of the specification of a non-contemporaneous mark, storing marking data associating the non-contemporaneous mark with recording data obtained at a marked time different from the marking time at which the non-contemporaneous mark was specified (page 2, paragraphs #0035 and #0036); wherein the non-contemporaneous mark is specified by the user at a time when the recording data with which the non-contemporaneous mark is associated is neither being obtained by the recording unit nor displayed to the user (page 2, paragraphs #0035 and #0036). However, Kwoh et al does not specifically disclose the newly added limitation "specifying a desired meaning for a type of mark prior to obtaining the recording data".

Cobbley et al teaches, an apparatus for providing broadcast information with indexing, a user a user interface associated with the control interface device, the user interface being configured to enable the user to specify, prior to the recording data being obtained by the data acquisition device, a desired meaning for at least one of the multiple types of non-contemporaneous marks (col. 4, lines 13-41) to allow the user to quickly and easily access the stored information (col. 2, lines 1-2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the user interface as taught by Cobbley et al into Kwoh et al's system in order to simplify the process of accessing the stored information as suggested by Cobbley.

Regarding claim 46, Kwoh et al discloses the claimed wherein:

the step of identifying further comprises identifying the specification of a retrospective mark (voice title 222 of Fig. 2, page 2, paragraph #0035); and

the step of storing further comprises storing marking data associating the retrospective mark with recording data obtained at a marked time prior to the marking time at which the non-contemporaneous mark was specified (page 2, paragraphs #0035 and #0036).

Regarding claim 47, Kwoh et al discloses the claimed wherein:

the step of identifying further comprises identifying the specification of a predictive mark (voice title 222 of Fig. 2, page 2, paragraph #0035); and

the step of storing further comprises storing marking data associating the predictive mark with recording data obtained at a marked time subsequent to the marking time at which the non-contemporaneous mark was specified (page 2, paragraphs #0035 and #0036).

Regarding claim 48, Kwoh et al discloses the claimed wherein the marking data defines the marking time and a duration of time, the marked time being the time different from the marking time by the amount of the duration of time (page 2, paragraph #0035 and pages 4-5, paragraph #0055).

Regarding claim 49, Kwoh et al discloses the claimed wherein the marking data defines the marking time directly (page 2, paragraph #0035).

Regarding claim 52, Kwoh et al discloses the claimed wherein the marking data further defines a range of time relative to the marked time (page 2, paragraph #0035 and pages 4-5, paragraph #0055).

Regarding claim 53, Kwoh et al discloses the claimed wherein the step of identifying further comprises:

Identifying an indication that a voice mark is to be imminently specified (page 2, paragraph # 0035); and

identifying a voice mark (page 2, paragraphs #0035 and #0036) in response to an indication that a voice mark is to be imminently specified.

6. Claims 6-7 and 50-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwoh et al (US 2002/00331331 A1) in view of Cobbley et al (US Patent No. 5,818,510) as applied to claims 1 and 45 above, and further in view of Abecassis ('814).

Regarding claim 6, the combination Kwoh et al and Cobbley et al discloses all the features of the instant invention as discussed in claim 1 above except for providing that the marking data further defines a confidence level that represents the certainty of the recorder that the marked recording data is the recording data that the recorder desires to mark.

Abecassis teaches a variable-content video retriever having means for marking data defines a confidence level that represents the certainty of the recorder that the marked recording data is the recording data that the recorder desires to mark (cols. 8-9).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate segmenting the video signal into G, PG, PG-13, R, NC-17 rating segments as taught by Abecassis into Kwoh et al's system in order to prevent an unauthorized viewer to watch recorded video signal.

Regarding claim 7, Abecassis teaches the claimed wherein the value of the confidence level defines a range of time relative to the marked time (cols. 8-9).

Method claims 50-51 are rejected for the same reasons as discussed in apparatus claims 6-7 above.

7. Claims 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwoh et al (US 2002/0031331 A1) in view of Cobbley et al (US 5,818,510) as applied to claim 36 above, and further in view of Cruz et al ('032).

Regarding claim 37, the combination of Kwoh et al and Cobbley et al discloses all the claimed features of the instant invention as discussed in claim 36 above except for providing the claimed wherein the system controller causes recording data corresponding to the at least one mark to be compressed in accordance with the level of importance or interest represented by the mark.

Cruz et al teaches a system and method for recording, playing back and searching multimedia event wherein video, audio and text can be searched and retrieved having means for indicating that a voice mark is to be imminently specified (col. 6, line 55 to col. 7, line 37) and that the system controller causes recording data corresponding to the at least one mark to be compressed in accordance with the level of importance or interest represented by the mark (col. 6, lines 37-54).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the searching apparatus as taught by Cruz et al into Kwoh et al's system in order to searching the desired audio signal in multimedia data.

Regarding claim 38, Cruz et al discloses the claimed wherein the system controller causes compression of recording data to be reduced after the predetermined amount of time (col. 6, lines 37-54).

Art Unit: 2616

8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kwoh et al (US 2002/0031331 A1) in view of Cobbley et al (US Patent No. 5,818,510) as applied to claim 11 above, and further in view of Horio et al ('876).

Regarding claim 12, the combination of Kwoh et al and Cobbley et al discloses all the features of the claimed invention as discussed in claim 11 above except for providing means for mounting one or more components of the recording unit on the body of the user.

Horio et al teaches a electronic camera having means for mounting the recorder on the person of the recorder (Fig. 5) to ease the user in carrying the recorder from one place to another.

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate means for mounting the recorder on the person of the recorder as taught by Horio et al into Kwoh et al's system in order to ease the user in carrying the recorder from place to place.

9. Claims 22-23 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwoh et al (US 2002/0031331 A1) in view of Cobbley et al (US Patent No. 5,818,510) as applied to claims 15 and 41 above, and further in view of Murphy et al (US Patent No. 6,282,362 B1).

Regarding claim 22, the combination of Kwoh et al and Cobbley et al discloses all the features of the claimed invention as discussed in claim 15 above except for providing wherein the multiple types of marks include one or more privacy marks.

Art Unit: 2616

Murphy et al teaches digital memory storage has an additional advantage over conventional video or film recording of images and locations in that encryption of the image and location data may be done in such a way that the data could be securely protected against subsequent alteration, for example, by locking the recorded image/location data file against rewriting, thereby providing a more defensively robust legal record (col. 6, lines 56-62).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capability of encrypting (one or more privacy marks) the digital data recorded on the digital memory storage as taught by Murphy et al into Kwoh et al's system in order to securely protected against subsequent alteration of the recorded data.

Regarding claim 23, Murphy et al teaches the claimed wherein the one or more privacy marks includes a mark that indicates that the marked part of the recording is to be erased (col. 6, lines 56-62).

Regarding claim 43, Murphy et al also teaches the digital data recording unit 102 having the claimed wherein the means for acquiring data other than recording data further comprises a position sensing device (geographical position detector (GPD) 110 disclosed in col. 8, lines 45-54) for storing video data and position data.

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capability of recording the position data along with the image signal as taught by Murphy et al into Kwoh et al's system in order to increase the

Art Unit: 2616

flexibility of the system of Kwoh et al by recording position data along with the image video signal.

10. Claims 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwoh et al (US 2002/0031331 A1) in view of Cobbley et al (US Patent No. 5,818,510) as applied to claim 15 above, and further in view of Konishi ('381).

Regarding claim 24, the combination of Kwoh et al and Cobbley et al discloses all the features of the instant invention as discussed in claim 15 above except for providing the claimed wherein the multiple types of marks include one or more marks indicating different recording units.

Konishi teaches that, with the electronic camera, it is possible to easily record various other data, such as date of photographing, shutter speed, aperture value, frame number, place of photographing, name of photographer and object, and various kinds of memo data or the like, on the same recording medium on which the object image information is recorded, by converting the data to electric signals so that, in the scientific field, the system can be study by using said various other data (col. 1, lines 35-68).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capability of recording data such as date of photographing, shutter speed, aperture value, frame number, place of photographing, name of photographer and object, and various kinds of memo data or the like on the same recording medium along with the image data as taught by Konishi into Kwoh et al's system in order to determining whether to improve the system of Kwoh et al by studying said data.

Regarding claim 25, Konishi further teaches the claimed wherein the multiple types of marks include one or more marks identifying the person making the mark (col. 1, lines 35-68).

Regarding claim 26, Konishi discloses the claimed wherein the multiple types of marks include one or more marks identifying a person appearing in the part of the recording represented by the recording data associated with the mark (col. 1, lines 35-68).

11. Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kwoh et al (US 2002/0031331 A1) in view of Cobbley et al (US Patent No. 5,818,510) as applied to claim 41 above, and further in view of Nickles ('335).

The combination of Kwoh et al and Cobbley et al discloses all the features of the instant invention as discussed in claim 41 above except for providing wherein the means for acquiring data other than recording data further comprises a physiological monitoring device; and the means for producing a mark and/or supplementing or modifying an existing mark produces, supplements or modifies based on the value of, or an analysis of, physiological monitoring data.

Nickles teaches, in hospital for diagnostic and research purposes, a device for the multiplexing of time varying amplitude physiological data signals with the signals that are provided to a data processing computer from the photomultiplier tubes of a gamma ray camera (col. 1, lines 13-23 and col. 2, lines 52-63).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capability of multiplexing of time varying amplitude

Art Unit: 2616

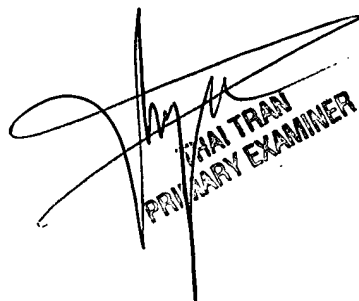
physiological data signals with the signals that are provided to a data processing computer from the photomultiplier tubes of a gamma ray camera as taught by Nickles into Kwoh et al's system in order to study the image signal by using the physiological data.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Tran whose telephone number is (703) 305-4725. The examiner can normally be reached on Mon. to Friday, 8:00 AM to 5:30 PM.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTQ



THAI TRAN
PRIMARY EXAMINER